

Class 9(2026-27)

Computer Applications

Chapter 11 – Computing and Ethics

A. Tick (✓) the Correct Answer

Question 1

This grants the owner or innovator the exclusive right to produce, use, or sell the invention, typically for up to 20 years.

- a. Patents
- b. Trademarks
- c. Data Privacy
- d. Data Protection

Answer:

✓ **a. Patents**

Explanation:

- A patent gives legal rights to an inventor.
- Others cannot copy or sell the invention without permission.

Question 2

_____ are unsolicited emails sent mainly with the idea of an online business scheme.

- a. Patents
- b. Spams
- c. Anti-virus
- d. Commercial Software

Answer:

✓ **b. Spams**

Explanation:

- Spam emails are unwanted emails.
- They may contain advertisements or fraud links.

Question 3

When there is illegal duplication, distribution or sale of copyrighted material with the intent of imitating the copyrighted product, then it is known as _____ of Software.

- a. Internet piracy
- b. End user piracy
- c. Counterfeiting
- d. Software misuse

Answer:

✓ **c. Counterfeiting**

Explanation:

- Counterfeiting means making illegal duplicate copies of software and selling them as original.
-

Question 4

If a legal user breaks the copyright rules and makes copies of the software without authorisation is called _____.

- a. Internet piracy
 - b. End user piracy
 - c. Counterfeiting
 - d. Software misuse
-

Answer:

✓ **b. End user piracy**

Explanation:

- End user piracy occurs when users copy software illegally without permission.
-

Question 5

Which one of the following is NOT a good way of protecting oneself from cybercrimes?

- a. Strong passwords
 - b. Use of pirated software
 - c. Use of Internet security suite
 - d. Children should know about threats
-

Answer:

✓ **b. Use of pirated software**

Explanation:

- Pirated software may contain viruses or malware.
 - It increases cyber security risks.
-

B. Fill in the Blanks

Question 1

A good anti-spam and anti-virus software is the best way to get rid of _____.

Answer:

✓ **malware**

Question 2

Buy _____ software and keep them updated.

Answer:

✓ **licensed**

Question 3

_____ is a method of influencing a minor for sexual abuse without their consent.

Answer:

✓ **Cyber grooming**

Question 4

_____ features should be disabled so that nothing can be installed without your permission.

Answer:

✓ **Auto-run**

Question 5

_____ is a way of abusing a person by hurting their integrity using the Internet.

Answer:

✓ **Cyber bullying**

C. Answer the Following Questions

Question 1

What do you mean by cyber terrorism?

Answer:

Cyber terrorism is the use of computers, networks, or the Internet to attack or damage important systems, create fear, or harm people and organizations.

Explanation:

Cyber terrorists may:

- Hack government systems
 - Spread viruses
 - Steal sensitive data
 - Disrupt services
-

Question 2

What is software piracy, and why is it a major concern for software companies?

Answer:

Software piracy is the illegal copying, installation, distribution, or use of software without permission from the owner.

Why is it a major concern?

1. Causes financial loss to companies
 2. Violates copyright laws
 3. Encourages illegal activities
 4. Pirated software may contain malware
-

Question 3

Define Copyright.

Answer:

Copyright is a legal protection given to the creator of original work such as books, music, software, and movies.

Explanation:

- Others cannot copy or use the work without permission.
-

Question 4

Define Data Privacy.

Answer:

Data Privacy means protecting personal and sensitive information from unauthorized access or misuse.

Example:

- Passwords
 - Phone numbers
 - Bank details
-

Question 5

Write four Netiquettes.

Answer:

Four Netiquettes are:

1. Be polite while communicating online.
 2. Do not use abusive language.
 3. Respect others' privacy.
 4. Do not spread fake information.
-

Question 6

When was the "Data Protection Act" implemented?

Answer:

The Data Protection Act was implemented in the year:

✓ **1998**

Explanation:

- It was introduced to protect personal information and privacy.
-

Question 7

Write four ways to stay safe from malicious code.

Answer:

1. Use updated antivirus software
 2. Avoid opening unknown email attachments
 3. Download software only from trusted websites
 4. Keep operating system updated
-

Question 8

What is Industrial Espionage?

Answer:

Industrial espionage is the illegal practice of stealing confidential business information from companies.

Example:

- Stealing trade secrets
 - Copying company data
-

Question 9

What is IP snooping?

Answer:

IP snooping is the unauthorized monitoring or tracking of Internet Protocol (IP) addresses and network activity.

Explanation:

- Hackers may use it to collect user information.

Question 10

What is Cyberwarfare?

Answer:

Cyberwarfare is the use of technology and computer networks by one country to attack another country's computer systems or networks.

Example:

- Hacking military systems
- Attacking power grids
- Disrupting communication networks

Important Definitions for Viva & Exams

Cyber Crime

Illegal activities done using computers or the Internet.

Malware

Malicious software designed to damage computers.

Spam

Unwanted or junk emails.

Piracy

Illegal copying or distribution of software.

Netiquette

Rules for polite behavior on the Internet.

Data Protection

Protecting information from misuse or theft.

Important Cyber Safety Tips

1. Use strong passwords
2. Never share OTP or passwords
3. Avoid pirated software
4. Use antivirus software
5. Keep software updated
6. Do not click unknown links

End of Chapter 11 Notes
Computing and Ethics

Class 9(2025-26)

Chapter 11

Computing and Ethics

Multiple Choice Answers

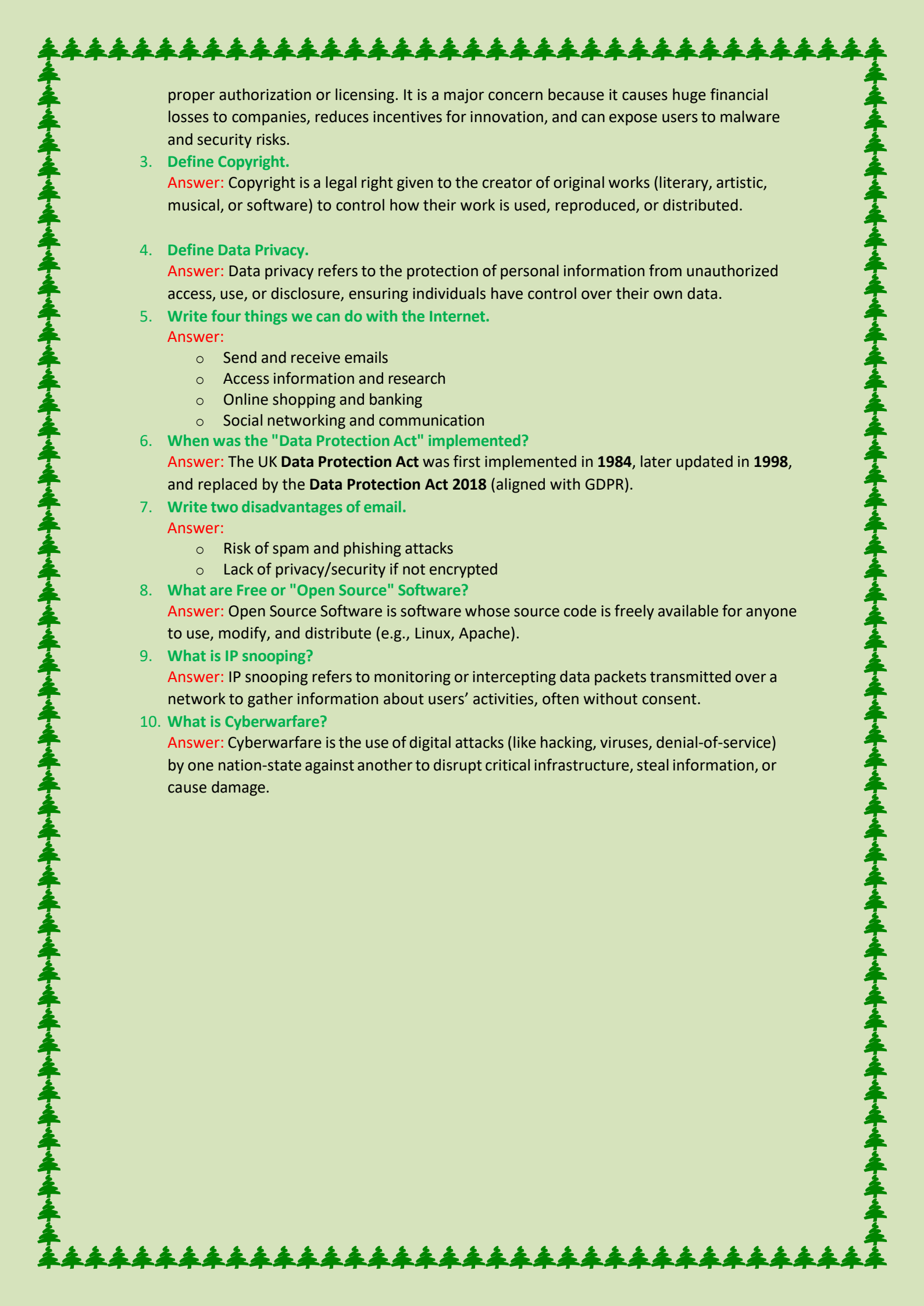
- _____ Means only the owner of the innovator has the sole right to produce, use and sell the item at least for first 5 years.
- **Trademarks**
→ Correct term is **Trademarks** (symbols, logos, brand identity).
- _____ Unsolicited emails sent mainly with the idea of an online business scheme:
→ **b. Spams**
- When there is Illegal duplication, distribution or sale of copyrighted material with intent of imitating the product then it is known as _____ Off software:
→ **c. Counterfeiting**
- If a legal user breaks copyright rules and makes copies of software without authorization Is called _____:
→ **b. End-user piracy**
- _____ Is Unethical Hacker or Security Cracker:
→ **b. Black Hat Hacker**

Fill in the Blanks

1. A good Anti-spam and Anti-Virus software needed is the best way to get rid of **malicious software (malware)** and keep them updated.
2. **BSA (Business Software Alliance)** is a non-profit trade association created to advance the goals of the software industry and its hardware partners.
3. Any crime that is done through the Internet and by using Computer/Mobile/Laptop and software is known as **Cybercrime**.
4. **Malicious** means anything that is having or showing a desire to cause harm to others.

Short Answer Questions

1. **What do you mean by cyber terrorism?**
Answer: Cyber terrorism refers to the use of computers, networks, and the Internet to conduct violent acts that threaten or cause fear, harm, or disruption to governments, organizations, or individuals for political or ideological motives.
2. **What is software piracy, and why is it a major concern for software companies?**
Answer: Software piracy is the illegal copying, distribution, or use of software without



proper authorization or licensing. It is a major concern because it causes huge financial losses to companies, reduces incentives for innovation, and can expose users to malware and security risks.

3. **Define Copyright.**

Answer: Copyright is a legal right given to the creator of original works (literary, artistic, musical, or software) to control how their work is used, reproduced, or distributed.

4. **Define Data Privacy.**

Answer: Data privacy refers to the protection of personal information from unauthorized access, use, or disclosure, ensuring individuals have control over their own data.

5. **Write four things we can do with the Internet.**

Answer:

- Send and receive emails
- Access information and research
- Online shopping and banking
- Social networking and communication

6. **When was the "Data Protection Act" implemented?**

Answer: The UK **Data Protection Act** was first implemented in **1984**, later updated in **1998**, and replaced by the **Data Protection Act 2018** (aligned with GDPR).

7. **Write two disadvantages of email.**

Answer:

- Risk of spam and phishing attacks
- Lack of privacy/security if not encrypted

8. **What are Free or "Open Source" Software?**

Answer: Open Source Software is software whose source code is freely available for anyone to use, modify, and distribute (e.g., Linux, Apache).

9. **What is IP snooping?**

Answer: IP snooping refers to monitoring or intercepting data packets transmitted over a network to gather information about users' activities, often without consent.

10. **What is Cyberwarfare?**

Answer: Cyberwarfare is the use of digital attacks (like hacking, viruses, denial-of-service) by one nation-state against another to disrupt critical infrastructure, steal information, or cause damage.